To EXTERNAL BYPASS (sheet 4)

*0397

N

9....2074.02. RFI card

L1B
L2B
L3B

Cu bar

*0472

261

161

4 J14
3
2
1

160

To J14 interface and inverter control card 2076 (sheet 3)

cu bar
cu bar
cu bar

to SWOUT (sheet 2)

SWMB

*0397

4   4

to N SWOUT(sheet 2)

to N SWOUT(sheet 2)

*0397

4I
29B

*0389

2 J3
1

To J3 power supply card 2120 (sheet 3)

29   29   L1B

30   30   L2B

31   31   L3B

SWBY

STATIC SWITCH

J1BO 21A   21A
J2BO 22A   22A
J3BO 23A   23A

to TLI-SWOUT (sheet 2)

STATIC SWITCH

*0314

21B
22B
23B
29B
30B
31B

1 J1
2
3
4
5
6

9....2078.01. Statich Switch driver

*0383

J7   X3 X3   J5

9....2099.01. Battery SCR driver

J7   X6 X6   J7

*0314   *0386

From J5 interface and inverter control card 2076 (sheet 3)

253
254
255
256

153
154
155
156

From J7 rectifier control card 2075 (sheet 3)

From interface and inverter control card 2076 (sheet 3)

LEGEND
* = CABLE SPECIFICATION CODE 0CBCA.....
** = CABLE SPECIFICATION CODE 0CBFA.....

REMOVABLE BARS

To J1 power supply card 2120 (sheet 3)

J1

J2R

To J2 voltage and current rectifier interface card 2063 MASTER(sheet 3)

*0474   *0398

F1 F2 F3

To J7-J8-J9 rc + interface AC card 2077 (sheet 3)

J7   100
      101
J8   102
      103
J9   104
      105

*0400

106
108
110
107
109
111

J3R

RECTIFIER + STATICH SWITCH MODULE SE-9APMPS018B

*0314

*0397

5th harmonic filter OPTIONAL SE-9APMPS069...

To J3 voltage and current rectifier interface card 2063 MASTER(sheet 3)

L1

A   A1
B   B1
C   C1

RECTIFIER

+   40

41   -

J2   J3   J4

cu bar

9....2079.01. driver inverter card

9....2079.01. driver inverter card

9....2079.01. driver inverter card

flat cable *0403
flat cable *0369
flat cable *0370

red 34   red 34   red 34

J3   J3   J3

11   12   13

INVERTER MODULE SE-9APMPS024E
INVERTER MODULE SE-9APMPS025E
INVERTER MODULE SE-9APMPS024E

32 black   32 black   32 black

cu bar

TA IN-1
TA IN-2
TA IN-3

L1   5   5   8 8 L1
L2   6   6   9 9 L2
L3   7   7   10 10 L3

SWIN

TA INV-1   TA INV-2   TA INV-3

*0399

red
black

1 J4
2
3
4
5
6
7
8

*0396   *0396   *0396

J5   11   J6   12   J8   13

to A of transformer (T) (sheet 2)
to B of transformer (T) (sheet 2)
to C of transformer (T) (sheet 2)

To voltage and current inverter interface card 2096 (sheet 3)

9....2074.02. RFI card

To J2 power supply card 2120 (sheet 3)

J2

*0361

J2B

red
black

*0398

To J2 voltage and current rectifier interface card 2063 SLAVE(sheet 3)

From J13 rectifier control card 2075 (sheet 3)

*0384

J13   X2 X2   J4

112
113
114
115

9....2064.01. driver rect.SCR card

To J9 voltage and current inverter interface card 2096 (sheet 3)

J9

F4   F5

From J1 rectifier control card 2075 (sheet 3)

J1   X1 X1   J1

*0385   *0314

*0397

*0374

BATTERY

red
39   39   cu bar

+

black
37   37   F8   cu bar

TA BATT

SCR1

GTEC   DOC. Schematic Diagram   COD. SE-9APLBTP200EC_Rev.02 PAG 1 / 4

OBJECT: LB200TP 6P CABINET
EDITOR: F.Mastropasqua   DATE: 27/12/2012   APPROVATION: F.Amodeo
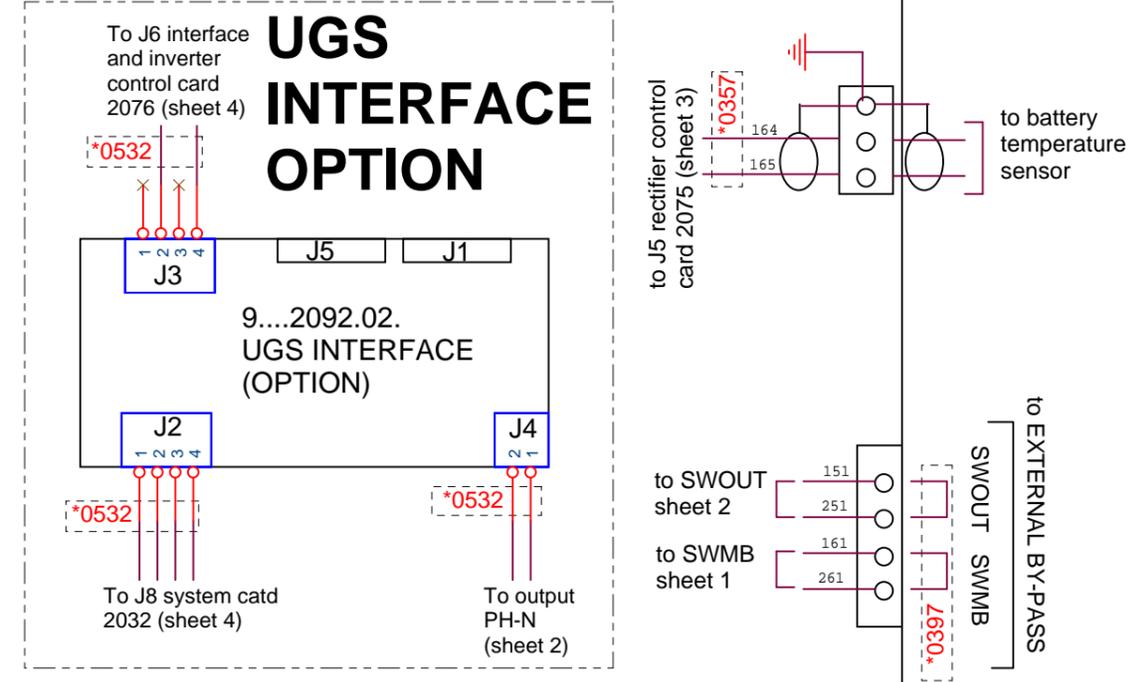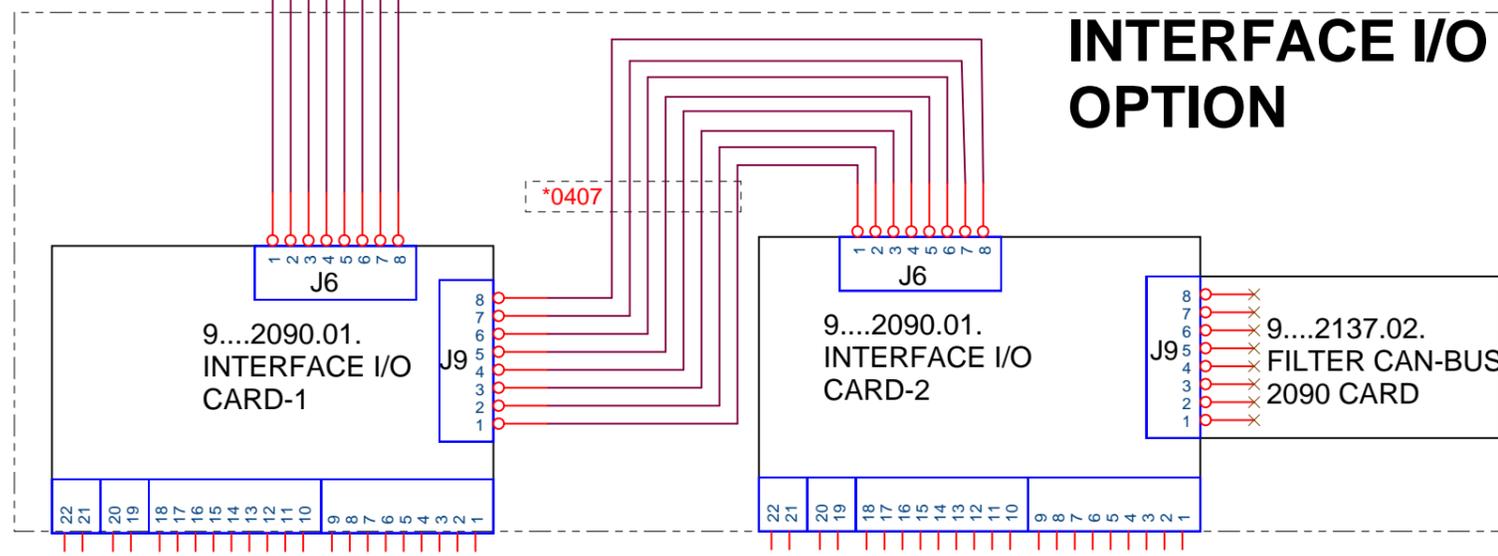REPLACE: SE-9APMPS200EC_REV.01
VARIATION: Modify page 4

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L1 cu bar
L2 cu bar
L3 cu bar
N cu bar

from SWMB sheet 1

To J9 interface and inverter control card 2076 (sheet 3)

to J4 of UGS card 2092 (option) sheet 4

J2
4 3 2 1
4B 3B 2B 1B
To J2 rc + interface AC card 2077 (sheet 3)
*0394

to N SWOUT

To J6 rc + interface AC card 2077 (sheet 3)
J6
1 2 3 4 5 6 7 8
136 137 138 139 140
*0393

J9
1 2 3 4
151 152
*0473

To EXTERNAL BYPASS (sheet 4)
*0397

*0352

*0392
125
126
1
2
3
4
5
6
127
128
7
8
J3
to J3 of driver TLI card 2098 (sheet 3)

TL I

TA OUT-1
TA OUT-2
TA OUT-3

251

from inverter module 1 (sheet 1)
from inverter module 2 (sheet 1)
from inverter module 3 (sheet 1)

11 A
12 B
13 C

T

a
b
c
n c

1
2
3

C1 C3
C2 C4 C5 C6

F9
F10
F11

1A
2A
3A

OUTPUT FILTER 9APMPS026C

1A
2A
3A

TLI

21
22
23

21A
22A
23A

21
22
23

21C
22C

SWOUT

9....2074.02. RFI card

OUTPUT
L1
L2
L3
N

4

*0397

21C
22C

To pin 1 J1 2098
To pin 4 J2 2077
to aux SWBY (sheet 1)
To J3(sheet 1)

4C
4B
4 I
4E
4F
4G
4H

NO CONNECT

162
163

*0382
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
J12
To J12 rectifier control card 2075 (sheet 3)

to N SWOUT

*0390
2C 4C
2 1
J1
to J1 of driver TLI card 2098 (sheet 3)

F6 blue
F7 blue

222B
223B
blue
blue

*0392

from rect. + st. switch module (sheet 1)

L3BO 23A
L2BO 22A
L1BO 21A

222 4E
223 4F
222B 4G 223B 4H

1 2 3 4
X4A
FANS PANEL 9APMPS020C
FN1

1 2 3 4
X4B
FANS PANEL 9APMPS020C
FN2

1 2 3 4 5 6
X5
FN3   FN4
FANS PANEL 9APMPS021B

LEGEND
* = CABLE SPECIFICATION CODE 0CBCA......
** = CABLE SPECIFICATION CODE 0CBFA......

GTEC   DOC. Schematic Diagram   COD. SE-9APLBTP200EC_Rev.02 PAG 2 / 4

OBJECT:	LB200TP 6P CABINET	
EDITOR:	F.Mastropasqua	DATE: 27/12/2012 APPROVATION: F.Amodeo
REPLACE:	SE-9APMPS200EC_REV.01	
VARIATION:	Modify page 4	

9....2132.01.
display panel

To SLOT-1 MAIN
(sheet-4)

To J3 parallel signal card
2101(option) sheet-4

flat cable *0301

From F1-F2-F3 (sheet 1)

*0474

*0361

From F4-F5 (sheet 1)

flat cable *1465

flat cable **0002

J1

J2

9....2034.01.
paralel card optional
(Board panel)

9....2120.01.
power supply card
(Board panel)

26   J5

9....2124.01.
grafic panel control card
(Board panel)

*0037

*0037

J1

flat cable **0003

to J2 of UGS card 2092 (option) sheet 4

flat cable *0367

J6

J2

J4   20   J6   26

flat cable *1466

flat cable **0001

J7   J6

To J6 RS232 CARD 2113 (sheet-4)

*0532

J3   34

flat cable *0267

J2

flat cable *0389

To (sheet 1)

41
29B

J3

J8
Connect only for option UGS

9....2032.02.
system card
(Board panel)

To sheet-1

MODULE-1   MODULE-2   MODULE-3

To J3 ugs interface card 2092 (OPTION)(sheet 4)

*0351

50   J4

X1   To sheet 1   X2

To transformer T (sheet 2)

NO CONNECT

50   J3   50

X3   To sheet 1

flat cable *0364

flat cable *0365

From SWMB (sheet 1)   From SWOUT (sheet 2)

*0472

*0473

J3   J3   J3

flat cable *0403   flat cable *0369   flat cable *0370

*0352

Connect only for option UGS

*0385

*0384

flat cable *0364

*0382

*0383

J1   J13   J3   50   J5   J11   50   J12   10   J14   J9   J2   J3   J4   14   J6

9....2075.01.
rectifier control card
(Board panel)

9....2076.01.
inteface and control inverter card
(Board panel)

J8

J5   J9   J11   J7   J8   J1   J13   J10   26

*0357   *0388   *0386   *0355   *0354   *0387   flat cable *0402

*0395

To battery temperature sensor (sheet 4)

J1B   J1R   X6   J10   J7   J2

9....2063.06.(SLAVE)
voltage and current rectifier interface
(Board panel)

9....2063.06.(MASTER)
voltage and current rectifier interface
(Board panel)

To sheet 1

9....2096.01.
voltage and current inverter interface

9....2098.01.
driver TLINV

J3   J1

LEGEND
* = CABLE SPECIFICATION CODE 0CBCA....
** = CABLE SPECIFICATION CODE 0CBFA....

J5

9....2077.01.
RC +interface AC

J3

J2B   J3R   J2R   J5   J6   J8   J9   J4   J7   J8   J9   J6   J4   J2   J1

*0392   *0390   *0314   *0393   *0391   *0314

From TLI (sheet 2)   From output filter (sheet 2)   from TABY-1; TABY-2; TABY-3 sheet 1 rect+st.sw. module (sheet 1)   From TA OUT-1;TA OUT-2; TA OUT-3 (sheet 1)   From output filter (sheet 2)   *0394   from rect. +st.sw.mod (sheet 1)

*0400   *0398   *0396   *0374   *0399

*0398

From F4-F5 (sheet 1)

From TA IN-1;TA IN-2;TA IN-3 (sheet 1)

From F1-F2-F3 (sheet 1)

From TA INV-1;TA INV-2;TA INV-3 (sheet 1)   From TA BATT (sheet 1)   From + / - bus bar (sheet 1)

GTEC   DOC. Schematic Diagram   COD. SE-9APLBTP200EC_Rev.02   PAG 3 / 4

OBJECT: LB200TP 6P CABINET

EDITOR: F.Mastropasqua   DATE: 27/12/2012   APPROVATION: F.Amodeo

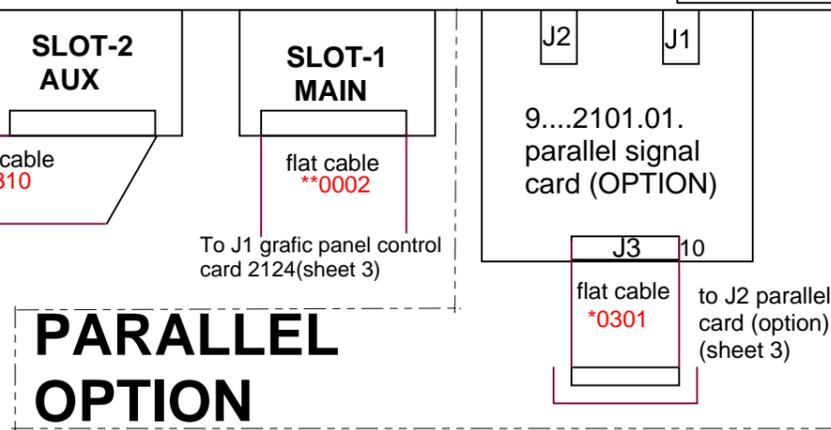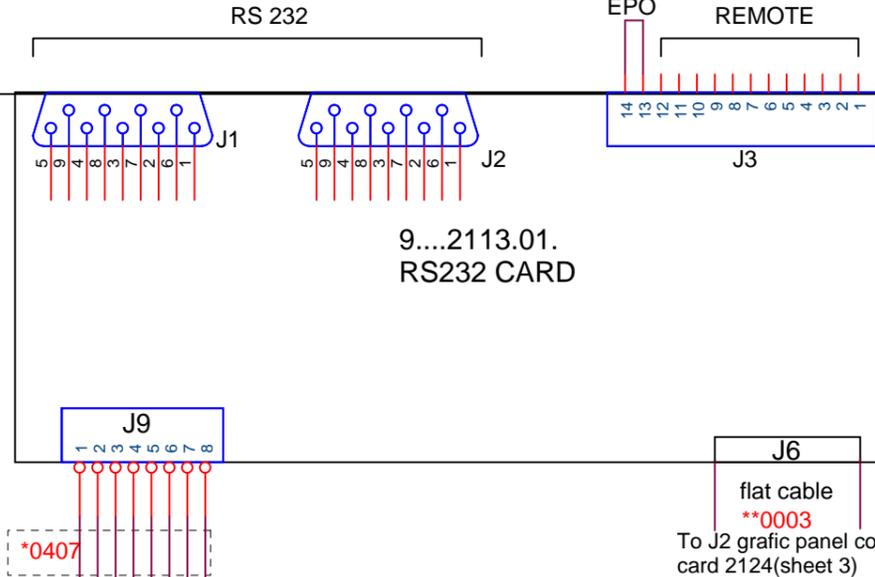REPLACE: SE-9APMPS200EC_REV.01

VARIATION: Modify page 4

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RS 232

EPO   REMOTE

J1   J2   J3

9....2113.01.
RS232 CARD

SLOT-2
AUX

SLOT-1
MAIN

J2   J1

9....2101.01.
parallel signal
card (OPTION)

J7   20

flat cable
*0310

flat cable
**0002

To J1 grafic panel control
card 2124(sheet 3)

J8 N.C

J3   10

flat cable
*0301

to J2 parallel
card (option)
(sheet 3)

**PARALLEL
OPTION**

J9

J6

flat cable
**0003

To J2 grafic panel control
card 2124(sheet 3)

*0407

**INTERFACE I/O
OPTION**

To J6 interface
and inverter
control card
2076 (sheet 4)

**UGS
INTERFACE
OPTION**

*0532

*0407

J6

J9

9....2090.01.
INTERFACE I/O
CARD-1

J6

9....2090.01.
INTERFACE I/O
CARD-2

J9

9....2137.02.
FILTER CAN-BUS
2090 CARD

J3   J5   J1

9....2092.02.
UGS INTERFACE
(OPTION)

J2   J4

*0532   *0532

To J8 system catd
2032 (sheet 4)

To output
PH-N
(sheet 2)

*0357

164
165

to battery
temperature
sensor

to J5 rectifier control
card 2075 (sheet 3)

to SWOUT
sheet 2

151
251

to SWMB
sheet 1

161
261

SWOUT   SWMB

to EXTERNAL BY-PASS

*0360

OPTION PANEL

standard cable
from J2 main power
supply

standard cable
from J4 voltage
and current card

**BATTERY START
OPTION**

BATTERY TEMPERATURE SENSOR SENSOR OPTION

On standard rectifier control card 9... 2075.01.
1-Disconect the standard cable code *0357 from J5.
2-Connect the filter code 9APMHT019.
3-Connect the cable code *0357 previus diconnect

J2

J4

J2-2

J4-2

HALOGEN LAMP

J1   J13   J3   50   J12

9....2075.01.
rectifier control card
(Board panel)

4

8

NO CONNECT

J8
1 2

2 J9 J10 1
1   2

3

PUSH BUTTON

TERMINAL BOARD

J5   J9   J11   J7   J8

red

white

white

J4   J5
1 2   1 2

2   3

SNUBBER

red   white

red   J3
1 2

NO CONNECT   1

8

1

4

2

FILTER
9APMHT019.

2   J5
1   1 2

165
164

*0357

to J2 mains power supply card
2120

to J4 voltage and current
card 2096